Bellwork Alg 2 Thursday, October 4, 2018

When solving Quadratic Equations using square roots, follow these steps:

- 1. Rearrange the equation so that what ever is being squared is by itself. (Isolate the quadratic term)
- 2. Take the square roots of both sides.
- 3. Finish solving for x if necessary.

Find all REAL EXACT solutions using square roots.

1.
$$3(x+7)^2 - 17 = 130$$

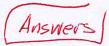
2.
$$7x^2 - 113 = 13$$



3.
$$43 - 6x^2 = 100$$

4.
$$2(x-3)^2 + 21 = 73$$

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Find all REAL EXACT solutions using square roots.

1.
$$3(x+7)^2 - 17 = 130$$

+ 17 + 17

$$\frac{3(x+7)^2}{3} = \frac{147}{3}$$

$$X+7=\pm7$$

2.
$$7x^2 - 113 = 13$$

+ $1/3$ + $1/3$

$$\frac{7x^2 = 126}{7}$$

$$X = \pm \sqrt{18} = \pm \sqrt{9.2}$$
 $X = \pm 3\sqrt{2}$

3.
$$43 - 6x^2 = 100$$

$$\frac{-6x^2}{-6} = \frac{57}{-6}$$

No Real Solution

4.
$$2(x-3)^{2} + 21 = 73$$

$$-21 - 2|$$

$$2(x-3)^{2} = 52$$

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